YARC, the solutions company.

YARC Systems was founded January 1988 to offer supercomputer performance to the desktop personal computer user. YARC's founder, Dr. Trevor Marshall, a pioneer in the development of coprocessor technology, has established a solutions-driven company that has already successfully introduced five state-of-the-art coprocessor systems, moving it to the forefront of this market.

YARC works closely with OEMs, VARs and users to provide computing solutions that work in the real world. Please call and discuss your application. You will find us interested and eager to help.

Making fast work of computing.

YARC

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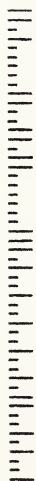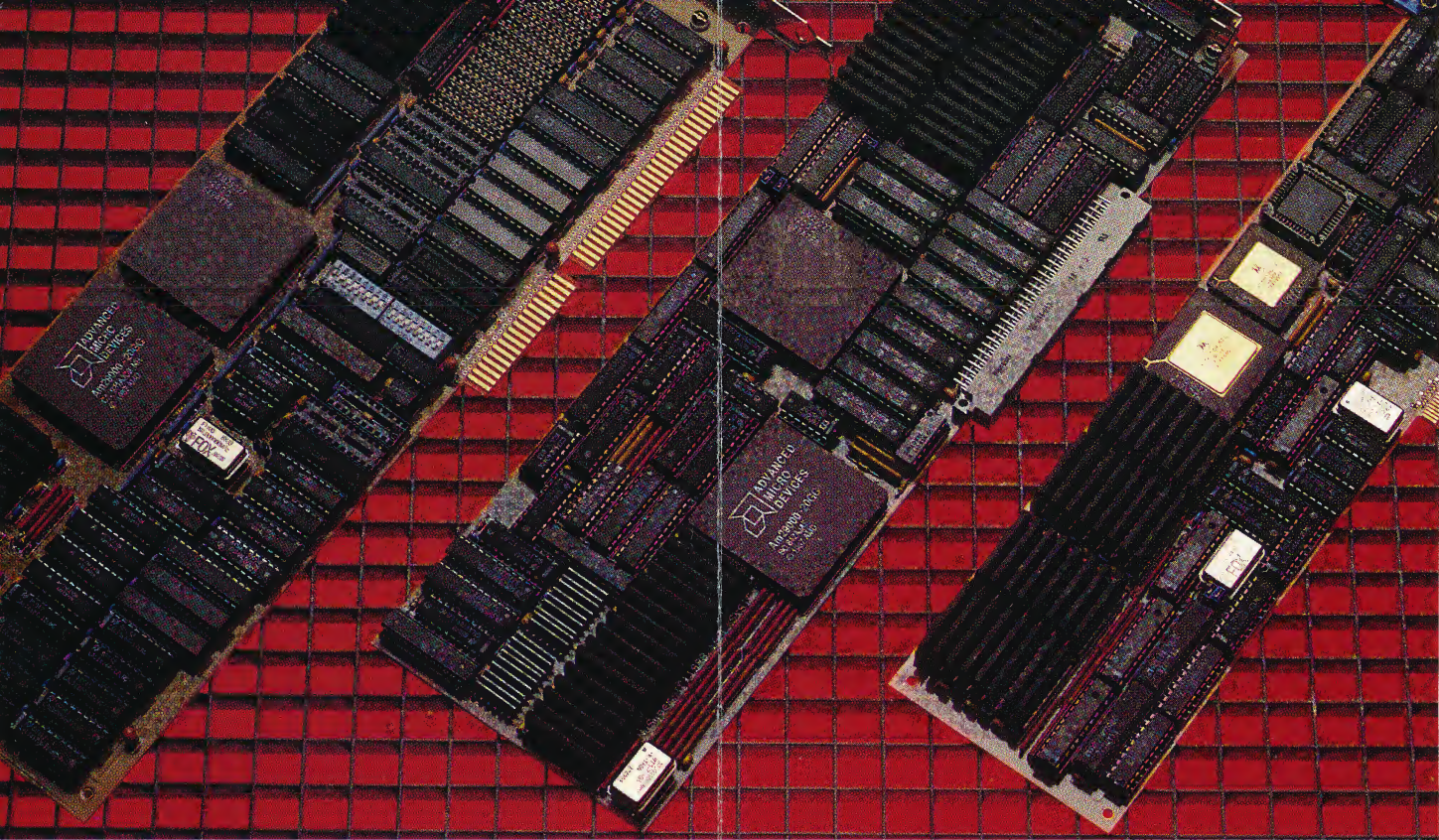
YARC coprocessors bring supercomputer power to your PC or Mac desktop.

Nowhere is the technological progress in microcomputers more evident than in their ability to take on tasks that formerly required much more expensive mini, mainframe, and even super computers. Hardware that cost millions of dollars is being replaced functionally by desktop workstations that cost only a few thousand.

Coprocessors, a relatively recent innovation, enable common personal computer platforms to easily support numerically intensive operations such as:

Imaging and graphics.
Modeling and simulation.
Scientific and engineering number crunching.

YARC coprocessors are the force behind installations doing all these things…and more. Totally transparent to users, the coprocessor manages its computational chores while other tasks are being handled on the host personal computer. In fact, multiple coprocessors can operate concurrently, each one performing a separate task, while the PC is available to run, for example, a word processing program.

Systems developers are thus given enormous freedom in their designs. With this expansion in available computing power, YARC VARs and OEMs are offering their customers wide-ranging high-speed solutions at affordable prices. The resulting market potential is virtually unlimited.

A YARC Coprocessor typically increases processing speeds from 10 to 24 times or more. One customer's program running on an Intel 80386 with a 80387 required 24 hours. With a YARC 29K Coprocessor, time was reduced to only one hour.

Software developers, whether VAR, OEM or end user, need merely to recompile their source program, using YARC's enhanced optimizing compilers, to benefit from the coprocessor's performance. One scientific user, Professor Stuart B. Savage of McGill University, Montreal,

states, "The purchase of these boards [several different coprocessors] has been by far the best computing money I have spent…The YARC AT-Super is getting close to the IBM 3090 scalar performance in a multi-user environment."

Numerous OEMs and VARs offer high performance application solutions in conjunction with YARC products. A few examples:

Digital Arts — DGS 3.0 3D Video production software for the PC AT.

RISC Coprocessors

Those needing computationally intensive capabilities, which are not inherently available in PCs, now have the alternative of YARC coprocessors which use the host machine's bus structures, hardware *and* disk operating system (MSDOS or Macintosh FINDER). The programs running on the coprocessor are thus accessed and controlled transparently without added inputs from the user. Operating at super-computer speeds, RISC CPUs in YARC coprocessor systems offer unmatched price/performance value for your dollar.

YARC **AT-SUPER**™and **NuSUPER**™ coprocessor systems for the PC-AT and Apple Macintosh II share these features:

- Up to 27 MIPS sustained performance
- AMD Am29000 32 bit RISC CPU
- AMD Am29027 Floating Point Accelerator
- 2 megabytes of high speed instruction RAM
- Up to 16 megabytes of data RAM on the AT-SUPER, up to 8 megabytes on the NuSUPER

CISC Coprocessors

Based on the Motorola 68020 and 68030 CPU series, the YARC-785+ is the first of a range of IBM PC-based CISC products. Extensive software availability makes this an attractive choice for many applications. Up to eight YARC-785+ coprocessors can be operated simultaneously in a single PC or IBM PS/2.

YARC-785+™ CISC Coprocessor

- Motorola MC68020 or 68030 CPU and MC68882 floating point processor operating at up to 50 MHz
- 5 or more VAX MIPS .31 or more Linpack MFLOPS
- 1, 2, 4, or 8 megabytes of high speed RAM on board (4 megabytes on PS/2)
- More computational power than a SUN-3 workstation plus the friendly interface of MSDOS

rm!

Visual Information Development, Inc. — Dimensions software for 3D Ray Tracing and animation on the MAC II.

Pipeline Associates — PSClone, the world's fastest Postscript interpreter with direct drive to Canon Laser Printer on the PC/AT.

Oklahoma Seismic — MIRA geophysics package on PC/AT and IBM PS/2.

YARC can help your solution succeed as these have.

PARALLEL Coprocessors

Parallel coprocessor technology offers a powerful alternative for many computational intensive applications. YARC is using its coprocessor interface expertise to design products with impressive capabilities. VARs, OEMs and end users designing for transputer B004 software applications will appreciate the compatibility of YARC's ProTran system. A versatile proprietary pin-field array that accepts a customized configuration module for each board assures you of reliable performance.

ProTran™ PC-AT Coprocessor System

- T800 transputer-based parallel processing system
- 20 MHz or 25 MHz versions
- Zero wait state performance
- High speed PC bus interface
  Peak I/O speed exceeds 1 MB/sec
- INMOS B004 Compatible
- Up to 40 MBytes RAM on single AT board
- 1 to 4 transputers per board
- Uses DOS operating system

EduTran PC/AT Low Cost Entry Level System

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